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ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/O 4/2
18201 SIG-D, MISSILE NUMBER FTM-1, ROUND NUMBER 1, 30 AUGUST 19--ETC(U)
AUG 79

UNCLASSIFIED ERADCOM/ASL-DR-1059

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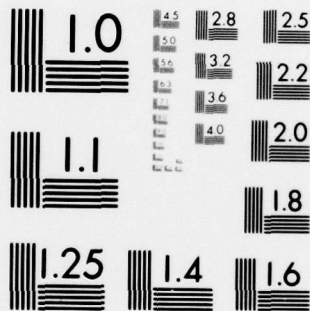
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DR 1059
AUGUST 1979
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METEOROLOGICAL DATA REPORT

18201 SIG-D
Missile No, FTM-1
Round No. 1
30 August 1979

by

White Sands Meteorological Team

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FEB 20 1980
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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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UNITED STATES ARMY ELECTRONICS COMMAND

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR 1059	2. GOVT ACCESSION NUMBER (9) Meteorological data rpt.	3. REPORT NUMBER
4. TITLE (and Subtitle) 18201 SIG-D, Missile Number <u>FTM-1</u> , Round Number 1 30 August 1979.	5. PERFORMING ORG. REPORT NUMBER	6. CONTRACT OR GRANT NUMBER(s)
7. AUTHOR(s) White Sands Meteorological Team	8. DA Task 1T6657-2D126-02	9. PROGRAM ELEMENT PROJECT, TASK AREA & WORK UNIT NUMBERS
10. PERFORMING ORGANIZATION NAME AND ADDRESS	11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Comd (11) Aug 1979 Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002	12. REPORT DATE
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18. SUPPLEMENTARY NOTES (14) ERADCOM/ASL-DR-1059	19. KEY WORDS (Continue on reverse side if necessary and identify by block number) 1. Ballistics 2. Meteorology 3. Winds	20. ABSTRACT (Continue on reverse side if necessary and identify by block number) X Meteorological data gathered for the launching of 18201 SIG-D, Missile Number FTM-1, Round Number 1, are presented in tabular form.

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INTRODUCTION

18201A SIG-D, Missile Number FTM-1, Round Number 1, was launched from LC33, White Sands Missile Range (WSMR), New Mexico, at 1555 MDT, 30 August 1979. The scheduled launch time was 1530 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

LC33 2820 Meters

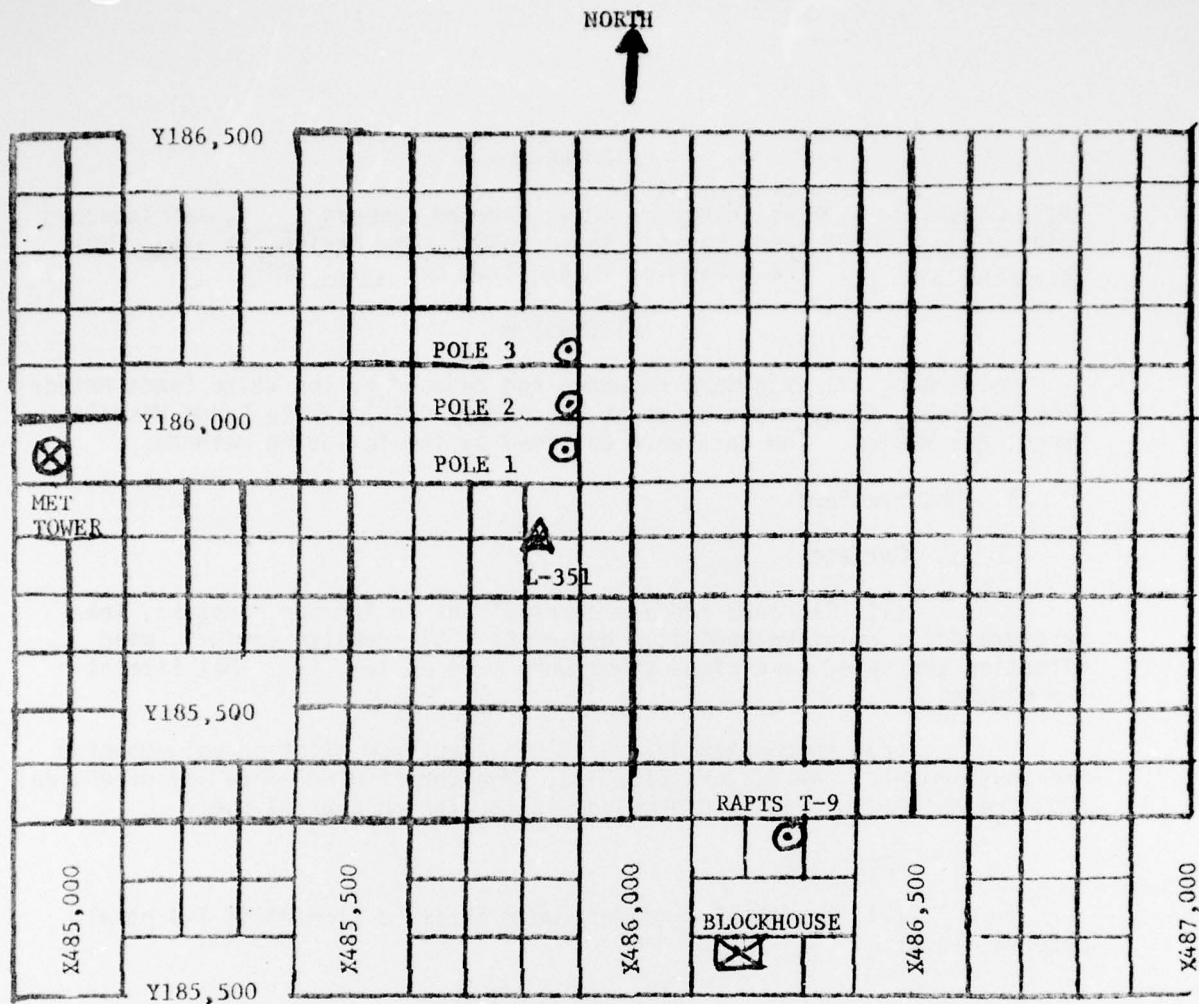
(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to _____ feet in 500-foot increments.

SITE AND TIME

WSD 1420 MST

SMR 1400 MST

HMN 1500 MST



1. MET TOWER - 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft
 - (b) Pole #2 - 53.0 ft
 - (c) Pole #3 - 83.6 ft
3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

TABLE 1. Surface Observation Taken at LC-33
 30 August 1979 at 1555 MDT, 18201 SIG-D
 Missile Number FTM-1, Round Number 1.

ELEVATION	3977.30	FT/MSL
PRESSURE	876.8	MBS
TEMPERATURE	33.8	°C
RELATIVE HUMIDITY	26	%
DEW POINT	11.5	°C
DENSITY	987.3	GM/M ³
WIND SPEED	01	MPH 160
WIND DIRECTION	160	DEGREES
CLOUD COVER	3 TCU	
CLOUD COVER	1 AC	

TABLE 2. LC-33 FIXED POLE ANEMOMETER-MEASURED WINDS

POLE #1			POLE #2			POLE #3		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	164	01.0	-30	000	00.0	-30	174	03.0
-20	207	01.0	-20	000	00.0	-20	174	02.0
-10	207	02.0	-10	000	00.0	-10	174	01.0
0.0	195	02.0	0.0	176	01.0	0.0	000	00.0
+10	192	01.0	+10	000	00.0	+10	000	00.0

Type 18201 SIG-D, Missile No. FTM-1, Round No. 1 launched
from LC-33 on 30 August 1979 at 1555 MDT.

POLE #1 = X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL

POLE #2 = X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL

POLE #3 = X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL

NOTE: Wind directions are referenced to the firing azimuth _____
or true north TRUE NORTH.

TABLE 3. LC-33 METEOROLOGICAL TOWER ANEMOMETER-MEASURED WINDS (202 FT. TOWER)

LEVEL #1 12 ft.			LEVEL #2 62 ft.		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	282	08.0	-30	264	08.0
-20	285	06.0	-20	265	07.0
-10	293	06.0	-10	271	07.0
0.0	295	06.0	0.0	275	07.0
+10	291	05.0	+10	278	05.0
LEVEL #3 102 ft.			LEVEL #4 202 ft.		
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	269	06.0	-30	255	06.0
-20	276	06.0	-20	239	06.0
-10	300	06.0	-10	235	05.0
0.0	290	05.0	0.0	257	04.0
+10	295	05.0	+10	255	04.0

WTSM Coordinates: X484,982.64 Y185,957.73 H3983.00 (base)

Type 18201 SIG-D, Missile No. FTM-1, Round No. 1 launched
from LC-33 on 30 August 1979 at 1555 MDT.

NOTE: Wind directions are referenced to the firing azimuth _____
or true north TRUE NORTH.

PILOT BALLOON MEASURED WIND DATA*

TABLE 4

RELEASED FROM LC 33 DATE 30 August 1979 TIME 1555 MDTRELEASE POINT COORDINATES (WSTM) X= 486,037.24 Y= 182,350.16 H= 3977.30MISSILE TYPE 18201 SIG-D MISSILE NO. FTM-1 ROUND NO. 1MISSILE LAUNCHED FROM LC 33 DATE 30 August 1979 TIME 1555 MDT.

NOTE: WIND DIRECTIONS ARE REFERENCED TO THE FIRING AZIMUTH

OR TRUE NORTH TRUE NORTHHeights are METERS AGL X or FEET AGL

HEIGHT AGL	DIRECTION DEGREES	SPEED MPH
SFC	160	1.0
30	162	2.0
60	164	2.5
90	166	3.5
120	167	4.0
150	169	4.5
180	170	5.0
210	171	8.0
240	171	11.0
270	167	9.0
300	162	7.0
330	175	6.5
360	188	6.0

HEIGHT AGL	DIRECTION DEGREES	SPEED MPH
390	189	6.5
420	190	7.0
450	205	6.5
480	219	5.5
510	210	7.5
540	200	9.0
570	204	8.0
600	207	7.0
630	196	7.0
660	185	7.0
690	192	6.5
720	199	6.0
750	211	7.0

*These datum are manually computed, non-quality assured, quick look data and therefore are subject to computational errors.

DELAS-MS-MT-WS Form 46

1 Sept 1979

Replaces DELAS-MS-MT-WS
forms 46-A & 46-B and all
other Pibal forms which are
obsolete.

RELEASED FROM IC-33

DATE 30 August 1979 TIME 1555 MDT

HEIGHT AGL	DIRECTION DEGREES	SPEED MPH
780	222	7.5
810	214	7.5
840	206	7.0
870	196	7.5
900	186	7.5
930	183	7.0
960	180	6.5
990	182	7.0
1020	184	7.5
1050	182	9.0
1080	179	10.5
1110	176	9.5
1140	173	8.0
1170	170	7.0
1200	166	6.0
1230	190	7.0
1260	213	7.5
1290	207	7.5
1320	201	7.5
1350	195	8.0
1380	188	8.0
1410	186	8.5

HEIGHT AGL	DIRECTION DEGREES	SPEED MPH
1440	184	8.5
1470	188	9.5
1500	191	10.0
1530	186	10.5
1560	180	10.5
1590	178	12.0
1620	176	13.5
1650	174	12.5
1680	172	11.0
1710	169	11.0
1740	166	10.5
1770	162	10.0
1800	157	9.0
1830	152	8.5
1860	146	7.5
1890	139	9.0
1920	131	10.0
1950	141	9.0
1980	151	8.0
2010	172	8.0
2040	193	7.5
2070	201	8.5

DELAS-MS-MT-WS Form 46
1 Sept 1979

[illegible]

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

SIGNIFICANT LEVEL DATA
2420020362
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
30 AUG. 79
ASCENSION NO. 362

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
877.3	3989.0	11.2	30.0
863.2	4454.4	10.2	30.0
850.0	4914.8	10.2	32.0
808.8	6324.4	9.1	36.0
736.2	9024.9	6.9	53.0
700.0	10427.5	5.6	63.0
646.0	12618.1	4.6	94.0
632.0	13208.6	.3	68.0
579.6	15520.0	-4.1	69.0
546.0	17092.6	-13.9	38.0
522.0	18264.8	-24.0	18.0
500.0	19376.3	-28.3	16.0
443.1	22447.2	-34.0	14.0
436.4	22831.0	-34.4	13.0
407.4	24553.3	-37.2	13.0
400.0	25009.0	-37.6	13.0
369.4	26965.9	-41.1	14.0
339.4	29003.9	-45.9	14.0
318.3	30519.0	-48.9	14.0
300.0	31905.5		
284.4	33149.8		
250.0	36100.4		
240.6	36961.0		
227.0	38234.0		
200.0	41010.0		
177.2	43565.5		
150.0	46977.0		
136.0	48933.6		
118.6	51623.1		
115.2	52191.6		
112.0	52742.1		
100.0	54966.6		
86.4	57860.7		
74.2	60915.0		
70.0	62097.6		
59.0	65616.0		
50.0	69063.6		
41.6	72933.4		
35.6	76249.3		
30.0	79914.1		

STATION ALTITUDE 3989.00 FEET MSL
30 AUG. 79 1420 HRS MST
ASCENSION NO. 362

SIGNIFICANT LEVEL DATA
2420020362
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE GEOMETRIC	TEMPERATURE	REL. HUM.
ALTITUDE	AIR DEWPOINT	PERCENT
MILLIBARS MSL FEET	DEGREES CENTIGRADE	
24.4 84372.1	-50.1	
20.0 88699.0	-47.3	
17.5 91652.9	-42.8	
10.4 103448.1	-36.4	

STATION ALTITUDE 3989.00 FEET MSL
30 AUG. 79 1420 HRS MST
ASCENSION NO. 302

UPPER AIR DATA
2420020302
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
3969.0	877.3	30.8	30.0	999.7	681.2	170.0	2.9	1.000278
4000.0	877.0	30.8	30.0	999.4	681.1	169.8	2.9	1.000277
4500.0	862.1	29.5	30.2	986.9	679.0	158.0	2.2	1.000271
5000.0	847.5	28.3	32.4	974.1	678.2	158.4	1.6	1.000269
5500.0	833.0	26.8	34.4	962.2	676.0	115.4	1.4	1.000260
6000.0	816.8	25.3	36.5	950.4	674.9	148.2	1.5	1.000262
6500.0	804.7	23.9	38.8	938.6	673.2	171.2	2.0	1.000259
7000.0	790.6	22.4	41.6	926.8	671.6	197.7	3.0	1.000250
7500.0	776.8	21.0	44.4	915.2	669.9	210.0	4.3	1.000252
8000.0	763.3	19.5	47.2	903.8	668.2	207.4	5.8	1.000249
8500.0	749.9	18.0	50.1	892.5	666.5	201.3	7.4	1.000245
9000.0	736.8	16.6	52.9	881.5	664.8	190.3	8.3	1.000241
9500.0	723.7	15.1	56.4	870.2	663.1	190.0	8.1	1.000238
10000.0	710.8	13.6	60.0	859.1	661.4	183.5	8.1	1.000235
10500.0	698.1	12.2	64.0	848.2	659.7	178.8	7.9	1.000231
11000.0	685.5	10.6	71.1	837.3	657.9	181.8	7.0	1.000229
11500.0	673.0	9.0	78.2	826.7	656.1	165.0	6.1	1.000227
12000.0	660.8	7.4	85.3	816.3	654.2	191.8	5.3	1.000224
12500.0	648.8	5.9	92.3	806.0	652.4	207.7	4.5	1.000221
13000.0	636.9	5.6	77.2	792.6	651.8	228.1	4.2	1.000211
13500.0	625.1	5.1	68.1	779.8	651.0	250.2	4.6	1.000203
14000.0	613.5	4.1	68.3	768.4	649.7	268.0	5.8	1.000199
14500.0	602.2	3.0	68.6	757.1	648.5	267.4	7.1	1.000195
15000.0	591.0	2.0	68.8	746.0	647.2	260.4	8.3	1.000190
15500.0	580.0	.9	69.0	735.0	645.9	254.1	9.2	1.000187
16000.0	569.1	.2	59.5	723.6	644.9	247.0	9.9	1.000180
16500.0	558.4	.6	49.7	712.3	643.8	240.7	10.9	1.000174
17000.0	547.9	-1.4	39.8	701.2	642.8	234.0	12.1	1.000168
17500.0	537.5	-2.3	31.0	690.6	641.5	229.2	12.7	1.000162
18000.0	527.3	-3.3	22.5	680.2	640.2	225.3	12.7	1.000157
18500.0	517.3	-4.4	17.6	670.2	638.6	222.1	12.5	1.000153
19000.0	507.3	-5.8	16.7	660.7	637.2	220.5	12.0	1.000151
19500.0	497.6	-7.0	15.9	651.0	635.7	218.7	11.6	1.000148
20000.0	487.9	-7.9	15.6	640.4	634.7	219.1	11.9	1.000145
20500.0	478.4	-8.7	15.3	629.9	633.6	219.4	12.3	1.000143
21000.0	469.1	-9.5	14.9	619.7	632.6	221.9	11.8	1.000140
21500.0	459.9	-10.4	14.6	609.6	631.6	229.2	11.0	1.000138
22000.0	451.0	-11.2	14.3	599.6	630.6	233.4	8.7	1.000136
22500.0	442.2	-11.9	13.9	589.5	629.7	245.7	6.5	1.000133
23000.0	433.5	-11.9	13.0	577.9	629.7	252.0	5.9	1.000130

STATION ALTITUDE 3989.00 FEET MSL
30 AUG. 79
ASCENSION NO. 302

UPPER AIR DATA
2420020362
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
105.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
23500.0	424.9	-12.9	-35.5	13.0	568.7	626.5	255.2	6.6	1.000128
24000.0	418.5	-13.9	-36.3	13.0	559.5	627.3	251.3	9.4	1.000126
24500.0	408.3	-14.9	-37.1	13.0	550.6	626.1	250.1	11.9	1.000124
25000.0	400.1	-15.5	-37.5	13.0	540.9	625.4	249.6	14.2	1.000122
25500.0	392.1	-16.8	-38.4	13.3	532.7	623.8	249.0	15.6	1.000120
26000.0	384.2	-18.1	-39.3	13.5	524.7	622.2	248.4	16.7	1.000118
26500.0	376.5	-19.5	-40.2	13.8	516.9	620.6	249.3	17.5	1.000116
27000.0	368.9	-20.8	-41.2	14.0	509.1	618.9	250.4	18.1	1.000114
27500.0	361.3	-22.2	-42.3	14.0	501.5	617.2	251.2	18.9	1.000113
28000.0	353.9	-23.6	-43.5	14.0	494.0	615.4	252.0	19.6	1.000111
28500.0	346.6	-25.1	-44.7	14.0	486.6	613.6	250.0	20.1	1.000109
29000.0	339.5	-26.5	-45.9	14.0	479.4	611.9	247.7	20.6	1.000107
29500.0	332.3	-27.7	-46.9	14.0	471.7	610.4	244.4	21.7	1.000106
30000.0	325.4	-28.9	-47.9	14.0	464.1	608.8	241.3	22.9	1.000104
30500.0	318.6	-30.2	-48.9	14.0	456.7	607.3	241.2	27.5	1.000102
31000.0	311.8	-30.3	-52.6	9.1**	447.3	607.1	241.4	32.5	1.000100
31500.0	305.2	-30.4	-59.2	4.1**	438.1	607.0	241.8	36.6	1.000098
32000.0	298.8	-30.7			429.2	606.7	242.1	40.7	1.000096
32500.0	292.4	-31.5			421.6	605.6	242.5	42.0	1.000094
33000.0	286.2	-32.3			414.1	604.5	243.0	42.8	1.000092
33500.0	280.1	-33.4			406.9	603.2	243.0	42.5	1.000091
34000.0	274.0	-34.5			400.0	601.8	242.9	42.1	1.000089
34500.0	268.1	-35.6			393.2	600.4	242.7	43.2	1.000088
35000.0	262.3	-36.7			386.5	599.0	242.0	44.5	1.000086
35500.0	256.6	-37.9			380.0	597.8	243.3	45.5	1.000085
36000.0	251.1	-39.0			373.5	596.2	244.1	46.4	1.000083
36500.0	245.6	-40.3			367.4	594.5	244.5	47.2	1.000082
37000.0	240.2	-41.7			361.5	592.7	244.9	47.9	1.000081
37500.0	234.8	-42.6			354.9	591.5	244.9	49.0	1.000079
38000.0	229.6	-43.6			348.5	590.2	244.0	50.4	1.000078
38500.0	224.4	-44.7			342.3	588.8	244.7	50.8	1.000076
39000.0	219.4	-46.0			336.4	587.1	245.3	50.0	1.000075
39500.0	214.4	-47.3			330.7	585.5	246.1	49.6	1.000074
40000.0	209.5	-48.6			325.0	583.8	247.2	49.7	1.000072
40500.0	204.7	-49.9			319.5	582.1	248.1	50.9	1.000071
41000.0	200.1	-51.2			314.0	580.4	248.7	52.8	1.000070
41500.0	195.4	-52.4			308.4	578.8	249.4	52.0	1.000069
42000.0	190.8	-53.7			303.0	577.1	250.2	49.9	1.000067
42500.0	186.4	-55.0			297.9	575.4	250.6	48.0	1.000066
43000.0	182.0	-56.3			292.3	573.7	250.7	46.2	1.000065

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL
30 AUG. 79
ASCENSION NO. 362

UPPER AIR DATA
2420020362
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT UEG
106.37033 LON UEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	177.8	-57.5			287.2	572.1	250.3	45.2	1.000064
44000.0	173.5	-58.6			281.6	570.7	249.3	45.8	1.000063
44500.0	169.3	-59.6			276.2	569.3	248.1	46.4	1.000062
45000.0	165.2	-60.6			270.8	568.0	245.5	46.9	1.000060
45500.0	161.2	-61.6			265.5	566.6	243.0	47.5	1.000059
46000.0	157.3	-62.6			260.3	565.3	241.3	48.6	1.000058
46500.0	153.5	-63.6			255.3	563.9	239.4	43.7	1.000057
47000.0	149.8	-64.6			250.3	562.5	239.3	42.4	1.000056
47500.0	146.1	-65.6			245.2	561.3	240.8	41.3	1.000055
48000.0	142.5	-66.5			240.2	560.1	242.2	40.5	1.000053
48500.0	139.0	-67.4			235.3	558.8	243.8	40.2	1.000052
49000.0	135.5	-68.3			230.5	557.6	245.4	39.9	1.000051
49500.0	132.1	-68.9			225.3	556.8	248.4	36.9	1.000050
50000.0	128.8	-69.5			220.3	556.0	247.8	33.9	1.000049
50500.0	125.6	-70.1			215.4	555.2	245.6	30.4	1.000048
51000.0	122.4	-70.7			210.6	554.4	242.2	26.8	1.000047
51500.0	119.3	-71.3			205.9	553.6	235.1	23.9	1.000046
52000.0	116.3	-70.7			200.2	554.3	224.7	21.8	1.000045
52500.0	113.4	-71.0			195.4	554.0	218.5	20.4	1.000044
53000.0	110.5	-71.1			190.6	553.8	212.8	19.0	1.000042
53500.0	107.8	-70.5			185.2	554.6	208.7	17.9	1.000041
54000.0	105.0	-69.9			180.0	553.4	206.5	17.1	1.000040
54500.0	102.4	-69.3			175.0	553.3	203.8	16.4	1.000039
55000.0	99.8	-68.7			170.1	553.1	197.1	17.8	1.000038
55500.0	97.3	-68.6			165.8	557.2	191.5	19.3	1.000037
56000.0	94.9	-68.5			161.5	557.4	181.5	21.7	1.000036
56500.0	92.5	-68.3			157.4	557.5	172.8	24.7	1.000035
57000.0	90.2	-68.2			153.4	557.7	169.0	25.1	1.000034
57500.0	88.0	-68.1			149.5	557.9	167.3	23.5	1.000033
58000.0	85.8	-67.8			145.5	558.3	167.3	20.3	1.000032
58500.0	83.7	-67.0			141.4	559.3	172.4	14.2	1.000031
59000.0	81.6	-66.2			137.4	560.4	163.9	8.5	1.000030
59500.0	79.6	-65.5			133.6	561.4	197.3	4.4	1.000029
60000.0	77.7	-64.7			129.8	562.5	273.1	2.0	1.000028
60500.0	75.8	-63.9			126.1	563.5	265.3	1.0	1.000027
61000.0	73.9	-63.3			122.7	564.4	138.9	1.1	1.000027
61500.0	72.1	-63.3			119.7	564.4	127.7	2.9	1.000027
62000.0	70.3	-63.3			116.8	564.4	124.3	4.8	1.000026
62500.0	68.6	-62.6			113.6	565.2	122.9	6.7	1.000025
63000.0	67.0	-61.8			110.4	566.3	120.3	7.1	1.000025

STATION ALTITUDE 3989.00 FEET MSL
30 AUG. 79
ASCENSION NO. 362

UPPER AIR DATA
2420020362
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
03500.0	65.4	-61.0		107.4	567.5	117.7	7.5	1.000024
04000.0	63.8	-60.2		104.4	568.6	112.4	8.4	1.000023
04500.0	62.3	-59.3		101.5	569.7	104.5	10.6	1.000023
05000.0	60.8	-58.5		96.7	570.7	99.5	12.9	1.000022
05500.0	59.3	-57.7		95.9	571.6	88.6	15.8	1.000021
06000.0	57.9	-57.6		93.6	572.0	79.9	19.3	1.000021
06500.0	56.5	-57.7		91.4	571.8	75.1	22.2	1.000020
07000.0	55.2	-57.8		89.3	571.7	75.5	22.0	1.000020
07500.0	53.9	-57.9		87.2	571.5	75.0	21.7	1.000019
08000.0	52.6	-58.1		85.2	571.4	76.6	20.6	1.000019
08500.0	51.4	-58.2		83.2	571.2	78.4	19.0	1.000019
09000.0	50.2	-58.3		81.3	571.1	80.2	17.5	1.000018
09500.0	49.0	-57.7		79.2	571.8	80.9	16.8	1.000018
70000.0	47.8	-57.1		77.1	572.6	81.7	16.1	1.000017
70500.0	46.7	-56.4		75.1	573.5	82.7	15.5	1.000017
71000.0	45.6	-55.8		73.1	574.4	84.2	15.0	1.000016
71500.0	44.5	-55.2		71.2	575.2	85.7	14.5	1.000016
72000.0	43.5	-54.5		69.3	576.1	86.4	13.4	1.000015
72500.0	42.5	-53.9		67.5	576.9	91.8	12.2	1.000015
73000.0	41.5	-53.3		65.7	577.6	93.5	11.1	1.000015
73500.0	40.5	-53.3		64.2	577.6	85.6	13.6	1.000014
74000.0	39.6	-53.3		62.7	577.6	79.1	16.3	1.000014
74500.0	38.6	-53.3		61.2	577.6	74.7	18.9	1.000014
75000.0	37.8	-53.3		59.8	577.6	72.4	20.4	1.000013
75500.0	36.9	-53.3		58.4	577.6	70.5	21.9	1.000013
76000.0	36.0	-53.3		57.1	577.6	69.5	22.5	1.000013
76500.0	35.2	-53.1		55.7	577.9	70.5	20.6	1.000012
77000.0	34.4	-52.8		54.3	578.3	71.5	18.7	1.000012
77500.0	33.6	-52.5		53.0	578.7	74.9	18.1	1.000012
78000.0	32.8	-52.2		51.7	579.1	81.5	19.7	1.000012
78500.0	32.0	-51.8		50.4	579.6	87.1	21.5	1.000011
79000.0	31.3	-51.5		49.2	580.0	91.4	22.2	1.000011
79500.0	30.6	-51.2		48.0	580.4	95.3	21.8	1.000011
80000.0	29.9	-50.9		46.8	580.8	99.3	21.5	1.000010
80500.0	29.2	-50.8		45.7	580.9	98.8	21.3	1.000010
81000.0	28.5	-50.7		44.7	581.0	94.7	21.3	1.000010
81500.0	27.9	-50.6		43.6	581.2	90.6	21.4	1.000010
82000.0	27.2	-50.5		42.6	581.5	87.1	23.0	1.000009
82500.0	26.6	-50.4		41.6	581.4	84.5	26.1	1.000009
83000.0	26.0	-50.3		40.7	581.5	82.5	29.2	1.000009

STATION ALTITUDE 3989.00 FEET MSL
30 AUG. 79 1420 HRS MST
ASCENSION NO. 362

UPPER AIR DATA
2420020302
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
105.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TIL)	SPEED KNOTS	INDEX OF REFRACTION
83500.0	25.4	-50.3		39.7	561.6	81.9	30.9	1.000009
84000.0	24.8	-50.2		38.8	561.7	82.4	30.8	1.000009
84500.0	24.3	-50.0		37.9	561.9	83.0	30.8	1.000008
85000.0	23.7	-49.7		37.0	562.4	83.8	30.5	1.000008
85500.0	23.2	-49.4		36.1	562.8	85.1	29.6	1.000008
86000.0	22.6	-49.0		35.2	563.2	85.4	28.9	1.000008
86500.0	22.1	-48.7		34.3	563.6	87.2	28.4	1.000008
87000.0	21.6	-48.4		33.5	564.0	88.9	28.6	1.000007
87500.0	21.1	-48.1		32.7	564.5	88.8	28.8	1.000007
88000.0	20.7	-47.8		31.9	564.9	88.8	29.0	1.000007
88500.0	20.2	-47.4		31.2	565.3	87.4	29.4	1.000007
89000.0	19.7	-46.8		30.4	566.1	88.1	29.8	1.000007
89500.0	19.3	-46.1		29.6	567.1	88.8	30.1	1.000007
90000.0	18.9	-45.3		28.8	568.0	88.4	29.8	1.000006
90500.0	18.4	-44.6		28.1	569.0	88.2	29.6	1.000006
91000.0	18.0	-43.8		27.4	590.0	87.9	29.3	1.000006
91500.0	17.6	-43.0		26.7	591.0	87.3	29.1	1.000006
92000.0	17.2	-42.6		26.0	591.5	86.7	29.0	1.000006
92500.0	16.9	-42.3		25.4	591.9	86.0	28.8	1.000006
93000.0	16.5	-42.1		24.9	592.2	86.1	29.2	1.000006
93500.0	16.1	-41.8		24.3	592.6	86.2	29.0	1.000005
94000.0	15.8	-41.5		23.7	592.9	86.3	30.1	1.000005
94500.0	15.4	-41.3		23.2	593.3	86.8	30.4	1.000005
95000.0	15.1	-41.0		22.7	593.6	87.0	30.8	1.000005
95500.0	14.8	-40.7		22.1	593.9	87.4	31.2	1.000005
96000.0	14.4	-40.4		21.6	594.3	87.7	31.6	1.000005
96500.0	14.1	-40.2		21.1	594.6	88.9	32.2	1.000005
97000.0	13.8	-39.9		20.6	595.0	88.1	32.9	1.000005
97500.0	13.5	-39.6		20.2	595.3	85.4	33.5	1.000004
98000.0	13.2	-39.4		19.7	595.7	84.1	33.5	1.000004
98500.0	12.9	-39.1		19.3	596.0	82.0	32.5	1.000004
99000.0	12.7	-38.8		18.8	596.4	79.7	31.5	1.000004
99500.0	12.4	-38.5		18.4	596.7	77.3	30.6	1.000004
100000.0	12.1	-38.3		18.0	597.1	78.3	28.3	1.000004
100500.0	11.8	-38.0		17.5	597.4	80.9	25.6	1.000004
101000.0	11.6	-37.7		17.1	597.7	84.1	23.0	1.000004
101500.0	11.3	-37.5		16.8	598.1			1.000004
102000.0	11.1	-37.2		16.4	598.4			1.000004
102500.0	10.8	-36.9		16.0	598.8			1.000004
103000.0	10.6	-36.6		15.6	599.1			1.000003

STATION ALTITUDE 3989.00 FEET MSL
 30 AUG. 79
 ASCENSION NO. 302

MRN SIGNIFICA. LEVEL DATA
 2420040006
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
3136.	9999.**	9999.**	-9999.**	-9999.**	99	-36.4	1.040+1	
2780.	87.	15.	-1.	-15.	99	-42.8	1.750+1	
2691.	88.	15.	-1.	-15.	99	-47.3	2.000+1	
2560.	83.	16.	-2.	-10.	99	-50.1	2.440+1	
2425.	99.	11.	2.	-11.	99	-50.9	3.000+1	
2314.	70.	11.	-4.	-10.	99	-53.3	3.560+1	
2214.	95.	6.	1.	-8.	99	-53.3	4.160+1	
2097.	80.	9.	-2.	-9.	99	-58.3	5.000+1	
1993.	86.	9.	-1.	-9.	99	-57.5	5.900+1	
1886.	124.	3.	1.	-2.	99	-63.3	7.000+1	
1850.	146.	0.	0.	-0.	99	-63.3	7.420+1	
1758.	166.	11.	11.	-3.	99	-68.0	8.640+1	
1070.	198.	9.	9.	3.	99	-68.7	1.000+2	

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
30 AUG. 79
ASCENSION NO. 302

MANDATORY LEVELS
24200-0300
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4911.	28.5	10.2	32.	142.8	1.7
800.0	6663.	23.4	8.9	40.	180.8	4.2
750.0	8496.	18.0	7.5	50.	201.3	7.4
700.0	10417.	12.4	5.6	63.	175.4	8.0
650.0	12436.	6.0	4.6	92.	205.7	4.6
600.0	14584.	2.8	-2.4	89.	205.9	7.3
550.0	16879.	-1.2	-12.5	42.	235.3	11.8
500.0	19349.	-6.8	-28.3	16.	219.2	11.7
450.0	22024.	-11.3	-33.3	14.	234.3	8.5
400.0	24967.	-15.5	-37.6	13.	249.6	14.2
350.0	28217.	-24.4	-44.1	14.	251.2	19.9
300.0	31841.	-30.5			242.0	39.8
250.0	36020.	-39.2			244.2	40.5
200.0	40909.	-51.2			248.7	52.8
175.0	43711.	-58.2			249.7	45.6
150.0	46848.	-64.6			239.4	42.5
125.0	50448.	-70.2			245.2	29.9
100.0	54795.	-68.7			197.9	17.6
80.0	59196.	-65.6			191.7	5.5
70.0	61882.	-63.3			124.1	5.0
60.0	65030.	-58.1			94.9	14.1
50.0	68801.	-58.3			60.2	17.4
40.0	73472.	-53.3			62.4	14.8
30.0	79569.	-50.9			98.3	21.5
25.0	83469.	-50.2			82.2	30.8
20.0	88279.	-47.3			87.6	29.6
15.0	94633.	-40.9			87.1	30.9

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3489.00 FEET MSL 30 AUG. 79 1420 HRS MST ASCENSION NO. 362			MRN MANDATORY LEVELS 2420020362 WHITE SANDS		GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG		
GEOPOTENTIAL ALTITUDE DECIMETERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA		DEW PT DEF DEG C	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
			E-W MPS	N-S MPS			
2884.	87.	16.	-15.	-1.	99	-40.9	1.500+1
2691.	88.	15.	-15.	-1.	99	-47.3	2.000+1
2544.	82.	16.	-15.	-2.	99	-50.2	2.500+1
2425.	98.	11.	-11.	2.	99	-50.9	3.000+1
2239.	82.	6.	-8.	-1.	99	-53.3	4.000+1
2097.	80.	9.	-9.	-2.	99	-58.3	5.000+1
1982.	95.	7.	-7.	1.	99	-58.1	6.000+1
1886.	124.	3.	-2.	1.	99	-63.3	7.000+1
1804.	192.	3.	1.	3.	99	-65.6	8.000+1
1670.	198.	9.	3.	9.	99	-68.7	1.000+2
1538.	245.	15.	14.	6.	99	-70.2	1.250+2
1428.	239.	22.	19.	11.	99	-64.6	1.500+2
1332.	250.	23.	22.	8.	99	-56.2	1.750+2
1247.	249.	27.	23.	10.	99	-51.2	2.000+2
1098.	244.	24.	22.	10.	99	-39.2	2.500+2
971.	242.	20.	18.	10.	99	-30.5	3.000+2
860.	251.	10.	10.	3.	20	-24.4	3.500+2
761.	250.	7.	7.	3.	22	-15.5	4.000+2
671.	234.	4.	4.	3.	22	-11.3	4.500+2
590.	219.	6.	4.	5.	22	-6.8	5.000+2
514.	235.	6.	5.	3.	11	-1.2	5.500+2
445.	266.	4.	4.	0.	05	2.8	6.000+2
379.	206.	2.	1.	2.	01	6.0	6.500+2
316.	178.	4.	-0.	4.	07	12.4	7.000+2
259.	201.	4.	1.	4.	11	16.0	7.500+2
203.	161.	1.	0.	1.	14	23.4	8.000+2
150.	143.	1.	-1.	1.	18	28.5	8.500+2

STATION ALTITUDE 3997.30 FEET MSL
30 AUG. 79
ASCENSION NO. 285

SIGNIFICANT LEVEL DATA
2420000285
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
877.1	35.6	15.3	30.0
850.0	32.8	14.4	33.0
807.2	27.0	12.3	40.0
767.8	23.6	12.3	49.0
700.0	16.0	9.7	66.0
644.6	10.5	8.3	86.0
626.6	9.8	1.7	57.0
573.6	6.1	1.1	70.0
565.2	3.0	-1.5	72.0
539.8	.3	-4.9	68.0
507.0	-1.5	-22.7	18.0
500.0	-2.5	-26.3	14.0
467.6	-5.7	-30.5	12.0
452.2	-5.7	-32.4	10.0
400.0	-12.7	-37.9	10.0
370.0	-22.1	-44.5	11.0
307.0	-28.5	-49.0	
300.0	-29.6		
289.0	-29.2		
250.0	-36.1		
200.0	-48.8		
179.4	-54.4		
150.0	-62.4		
138.0	-66.0		
119.8	-69.4		
100.0	-67.0		
70.0	-60.7		
57.8	-55.0		
50.0	-55.1		
30.0	-47.4		
21.2	-46.1		
20.0	-43.9		
13.6	-38.0		
12.6	-37.5		

ALL DATA DOUBTFUL, EXCEPT WIND DATA.

STATION ALTITUDE 3997.30 FEET MSL
30 AUG. 79 1400 HRS MST
ASCENSION NO. 285

UPPER AIR DATA
2420060285
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
3997.3	877.1	35.6	15.3	30.0	982.2	687.1	.0	.0	1.000288
4000.0	877.0	35.6	15.3	30.0	982.1	687.1	157.1	.0	1.000288
4500.0	862.4	34.1	14.9	31.6	970.6	685.4	157.1	1.1	1.000284
5000.0	848.0	32.5	14.3	33.3	959.4	683.6	157.1	2.2	1.000280
5500.0	833.7	30.6	13.7	35.6	949.3	681.4	157.1	3.4	1.000276
6000.0	819.6	28.7	13.0	37.9	939.4	679.2	157.1	4.5	1.000272
6500.0	805.8	26.9	12.3	40.3	929.3	677.1	157.5	5.5	1.000267
7000.0	792.0	25.7	12.3	43.4	916.8	675.8	163.4	5.5	1.000265
7500.0	778.4	24.5	12.3	46.5	904.0	674.5	167.1	5.5	1.000263
8000.0	765.0	23.3	12.2	49.7	892.6	673.1	174.1	5.8	1.000260
8500.0	751.6	21.8	11.8	52.9	881.4	671.5	180.8	6.1	1.000257
9000.0	738.5	20.4	11.4	56.2	870.3	669.8	185.2	6.5	1.000253
9500.0	725.6	19.0	10.9	59.4	859.5	668.1	187.4	6.9	1.000249
10000.0	712.9	17.5	10.3	62.6	848.8	666.4	189.1	7.3	1.000245
10500.0	700.5	16.1	9.7	65.9	838.3	664.7	188.4	7.8	1.000241
11000.0	688.0	14.8	9.5	70.2	826.8	663.3	185.4	8.2	1.000238
11500.0	675.7	13.6	9.2	74.6	815.4	661.9	185.9	8.5	1.000235
12000.0	663.6	12.4	8.9	78.9	804.2	660.5	192.8	8.3	1.000232
12500.0	651.8	11.2	8.5	83.3	793.5	659.1	209.1	5.7	1.000229
13000.0	640.1	10.3	6.8	78.8	782.0	657.9	243.1	4.4	1.000221
13500.0	628.5	9.9	2.5	60.1	770.2	656.9	278.4	5.7	1.000206
14000.0	617.1	9.2	1.6	59.3	758.3	655.1	290.6	7.7	1.000202
14500.0	605.8	8.4	1.5	62.0	746.4	653.1	281.0	8.5	1.000199
15000.0	594.8	7.6	1.4	64.7	734.8	654.2	272.4	9.3	1.000196
15500.0	583.9	6.8	1.2	67.4	723.4	653.3	262.1	9.7	1.000194
16000.0	573.3	6.0	1.0	70.1	712.4	652.3	253.9	10.1	1.000191
16500.0	562.7	2.7	-1.9	71.6	706.0	648.2	250.0	9.9	1.000184
17000.0	552.2	1.6	-3.2	70.0	697.8	646.9	245.1	9.7	1.000180
17500.0	541.9	.5	-4.6	68.3	687.7	645.5	239.0	9.5	1.000175
18000.0	531.7	-1.1	-7.8	56.0	676.8	644.5	236.0	10.1	1.000168
18500.0	521.7	-1.7	-12.3	40.8	665.9	643.6	235.3	10.9	1.000160
19000.0	511.9	-1.2	-18.4	25.6	655.1	642.8	235.9	10.9	1.000153
19500.0	502.2	-2.2	-25.1	15.3	645.3	641.5	236.4	11.0	1.000148
20000.0	492.6	-3.2	-27.2	13.6	635.4	640.2	235.4	10.9	1.000145
20500.0	483.2	-4.1	-28.4	13.0	625.5	639.1	234.9	10.7	1.000142
21000.0	474.0	-5.1	-29.6	12.4	615.7	638.0	236.1	9.9	1.000140
21500.0	464.9	-5.7	-30.8	11.7	605.4	637.2	237.4	9.0	1.000137
22000.0	456.0	-5.7	-31.9	10.5	593.7	637.2	237.3	6.4	1.000134
22500.0	447.2	-6.3	-32.9	10.0	583.7	636.5	237.1	3.8	1.000132
23000.0	438.5	-7.5	-33.7	10.0	574.7	635.1	236.0	3.3	1.000130

ALL DATA DOUBTFUL, EXCEPT WIND DATA.

STATION ALTITUDE 3497.30 FEET MSL
30 AUG. 79
ASCENSION NO. 285

UPPER AIR DATA
2420000265
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DIRECTION DEGREES(TN)	WIND SPEED KNOTS	INDEX OF REFRACTION
23500.0	429.9	-8.6	-34.6	10.0	565.0	633.8	236.0	2.9	1.000128
24000.0	421.6	-9.7	-35.5	10.0	557.3	632.4	248.1	4.8	1.000126
24500.0	413.4	-10.8	-36.4	10.0	548.8	631.1	254.3	7.8	1.000124
25000.0	405.3	-11.9	-37.3	10.0	540.5	629.7	257.8	10.7	1.000122
25500.0	397.4	-13.1	-38.2	10.0	532.2	628.3	260.2	13.6	1.000120
26000.0	389.4	-14.4	-39.1	10.2	524.2	626.7	261.1	15.9	1.000118
26500.0	381.6	-15.7	-40.0	10.3	516.3	625.1	260.6	17.3	1.000116
27000.0	373.9	-17.0	-40.9	10.5	508.5	623.5	260.4	18.3	1.000114
27500.0	366.4	-18.3	-41.8	10.6	500.8	621.9	260.8	18.6	1.000112
28000.0	359.0	-19.6	-42.7	10.7	493.3	620.4	261.0	18.8	1.000111
28500.0	351.8	-20.9	-43.6	10.9	485.9	618.8	259.8	18.7	1.000109
29000.0	344.8	-22.2	-44.5	11.0	478.5	617.2	258.0	18.8	1.000107
29500.0	337.6	-23.3	-45.4	11.0	470.8	615.8	250.4	20.5	1.000105
30000.0	330.6	-24.5	-46.4	11.0	463.1	614.4	244.8	22.5	1.000104
30500.0	323.8	-25.6	-47.3	11.0	455.6	613.0	243.6	25.1	1.000102
31000.0	317.1	-26.7	-48.2	11.0	448.2	611.6	243.3	28.1	1.000100
31500.0	310.5	-27.9	-49.1	11.0	441.0	610.1	245.3	32.6	1.000099
32000.0	304.0	-28.5	-49.1	6.4**	433.0	609.3	246.0	36.9	1.000097
32500.0	297.7	-28.7	-54.2		424.2	609.1	244.9	41.0	1.000094
33000.0	291.4	-29.1			415.9	608.6	244.3	43.5	1.000093
33500.0	285.2	-29.8			408.4	607.7	244.1	44.3	1.000091
34000.0	279.2	-30.8			401.4	606.4	244.2	45.4	1.000089
34500.0	273.2	-31.9			394.5	605.1	244.5	46.7	1.000088
35000.0	267.4	-32.9			387.7	603.8	244.7	47.4	1.000086
35500.0	261.7	-33.9			381.1	602.6	244.9	47.9	1.000085
36000.0	256.1	-35.0			374.5	601.3	244.7	48.6	1.000083
36500.0	250.6	-36.0			368.1	600.0	244.4	49.6	1.000082
37000.0	245.1	-37.2			361.9	598.4	244.3	50.7	1.000081
37500.0	239.7	-38.5			355.8	596.8	244.4	52.0	1.000079
38000.0	234.3	-39.8			349.8	595.1	244.9	52.1	1.000078
38500.0	229.1	-41.1			343.9	593.5	246.0	50.7	1.000077
39000.0	224.0	-42.3			338.2	591.9	247.3	49.7	1.000075
39500.0	219.1	-43.6			332.5	590.2	248.6	50.6	1.000074
40000.0	214.2	-44.9			326.9	588.6	249.8	51.4	1.000073
40500.0	209.4	-46.2			321.5	586.9	250.9	53.4	1.000072
41000.0	204.8	-47.5			316.1	585.3	251.2	55.3	1.000070
41500.0	200.2	-48.7			310.6	583.6	251.4	55.7	1.000069
42000.0	195.6	-49.9			305.3	582.0	251.8	55.9	1.000068
42500.0	191.1	-51.1			299.9	580.5	251.9	55.4	1.000067
43000.0	186.7	-52.3			294.5	578.9	252.1	54.7	1.000066

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.
ALL DATA DOUBTFUL, EXCEPT WIND DATA.

STATION ALTITUDE 3997.30 FEET MSL
30 AUG. 79 1400 HRS MST
ASCENSION NO. 285

UPPER AIR DATA
2420060285
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	INDEX OF REFRACTION
43500.0	182.4	-53.6		289.3	577.3	252.1	1.000064
44000.0	178.1	-54.7		284.1	575.8	251.0	1.000063
44500.0	173.9	-55.8		278.7	574.4	250.8	1.000062
45000.0	169.7	-56.9		273.4	572.9	248.3	1.000061
45500.0	165.7	-58.0		268.2	571.5	245.8	1.000060
46000.0	161.8	-59.0		263.2	570.1	243.8	1.000059
46500.0	157.9	-60.1		258.2	568.6	242.1	1.000058
47000.0	154.1	-61.2		253.3	567.2	240.7	1.000056
47500.0	150.5	-62.3		248.6	565.7	240.9	1.000055
48000.0	146.8	-63.3		243.7	564.3	241.0	1.000054
48500.0	143.2	-64.4		239.0	562.9	241.2	1.000053
49000.0	139.7	-65.5		234.3	561.4	241.4	1.000052
49500.0	136.3	-66.3		229.5	560.3	243.3	1.000051
50000.0	132.9	-66.9		224.4	559.5	248.0	1.000050
50500.0	129.6	-67.5		219.5	558.7	252.7	1.000049
51000.0	126.3	-68.1		214.7	557.6	255.3	1.000048
51500.0	123.2	-68.7		209.9	557.0	249.2	1.000047
52000.0	120.1	-69.3		205.3	556.2	235.5	1.000046
52500.0	117.1	-69.1		200.0	555.5	221.2	1.000045
53000.0	114.2	-68.6		194.7	557.0	214.3	1.000043
53500.0	111.4	-68.4		189.5	557.4	211.3	1.000042
54000.0	108.6	-68.1		184.5	557.9	209.5	1.000041
54500.0	105.9	-67.8		179.6	556.3	210.4	1.000040
55000.0	103.2	-67.4		174.8	558.8	211.4	1.000039
55500.0	100.7	-67.1		170.2	559.2	202.9	1.000038
56000.0	98.2	-66.7		165.7	559.8	194.6	1.000037
56500.0	95.8	-66.2		161.3	560.4	186.9	1.000036
57000.0	93.5	-65.8		157.0	561.0	180.5	1.000035
57500.0	91.2	-65.4		152.9	561.6	175.9	1.000034
58000.0	89.0	-64.9		148.8	562.2	175.9	1.000033
58500.0	86.8	-64.5		144.9	562.7	178.9	1.000032
59000.0	84.7	-64.1		141.1	563.3	179.6	1.000031
59500.0	82.6	-63.6		137.3	563.9	190.8	1.000030
60000.0	80.6	-63.2		133.7	564.5	277.3	1.000029
60500.0	78.6	-62.8		130.2	565.1	309.8	1.000028
61000.0	76.7	-62.3		126.7	565.7	346.2	1.000027
61500.0	74.8	-61.9		123.4	566.3	33.0	1.000026
62000.0	73.0	-61.4		120.1	566.8	108.3	1.000025
62500.0	71.2	-61.0		117.0	567.4	127.8	1.000024
63000.0	69.5	-60.5		113.8	568.1	119.1	1.000023

STATION ALTITUDE 3997.30 FEET MSL
30 AUG. 79 1400 HRS MST
ASCENSION NO. 285

UPPER AIR DATA
2420060285
S M R

GEODETTIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
63500.0	67.9	-59.8			110.8	569.1	105.5	5.4	1.000025
64000.0	66.2	-59.1			107.8	570.0	94.4	6.1	1.000024
64500.0	64.7	-58.3			104.9	571.0	84.8	8.7	1.000023
65000.0	63.1	-57.6			102.1	571.9	79.5	11.4	1.000023
65500.0	61.6	-56.9			99.3	572.9	77.1	13.6	1.000022
66000.0	60.2	-56.2			96.6	573.8	77.0	14.4	1.000022
66500.0	58.8	-55.5			94.0	574.8	76.9	15.1	1.000021
67000.0	57.4	-55.0			91.6	575.4	78.8	15.1	1.000020
67500.0	56.0	-55.0			89.5	575.4	82.2	14.5	1.000020
68000.0	54.7	-55.0			87.4	575.4	85.9	13.9	1.000019
68500.0	53.4	-55.1			85.3	575.3	88.7	14.9	1.000019
69000.0	52.2	-55.1			83.3	575.3	91.0	16.0	1.000019
69500.0	51.0	-55.1			81.4	575.3	92.7	16.7	1.000018
70000.0	49.8	-55.0			79.5	575.4	93.8	16.7	1.000018
70500.0	48.6	-54.7			77.5	575.8	94.9	16.7	1.000017
71000.0	47.5	-54.3			75.6	576.3	95.1	16.3	1.000017
71500.0	46.4	-54.0			73.8	576.8	94.8	15.7	1.000016
72000.0	45.3	-53.6			72.0	577.2	94.6	15.2	1.000016
72500.0	44.3	-53.3			70.2	577.7	92.1	15.0	1.000016
73000.0	43.3	-52.9			68.5	578.1	88.8	15.0	1.000015
73500.0	42.3	-52.6			66.8	578.6	85.6	15.1	1.000015
74000.0	41.3	-52.2			65.1	579.1	84.7	16.2	1.000014
74500.0	40.4	-51.9			63.5	579.5	84.5	17.6	1.000014
75000.0	39.4	-51.5			62.0	580.0	84.2	19.1	1.000014
75500.0	38.5	-51.2			60.5	580.4	86.7	19.7	1.000013
76000.0	37.6	-50.8			59.0	580.9	89.8	20.1	1.000013
76500.0	36.8	-50.5			57.5	581.3	92.7	20.6	1.000013
77000.0	35.9	-50.1			56.1	581.8	95.0	20.9	1.000012
77500.0	35.1	-49.8			54.7	582.3	97.2	21.1	1.000012
78000.0	34.3	-49.4			53.4	582.7	99.4	21.4	1.000012
78500.0	33.5	-49.1			52.1	583.2	99.1	21.9	1.000012
79000.0	32.7	-48.7			50.8	583.6	98.3	22.5	1.000011
79500.0	32.0	-48.4			49.6	584.1	97.5	23.0	1.000011
80000.0	31.2	-48.0			48.4	584.5	95.8	24.0	1.000011
80500.0	30.5	-47.7			47.2	585.0	94.1	25.0	1.000011
81000.0	29.8	-47.4			46.0	585.4	92.5	26.1	1.000010
81500.0	29.2	-47.3			45.0	585.5	91.4	26.6	1.000010
82000.0	28.5	-47.2			43.9	585.6	90.3	26.9	1.000010
82500.0	27.9	-47.1			42.9	585.7	89.3	27.3	1.000010
83000.0	27.2	-47.0			42.0	585.8	88.0	28.1	1.000009

STATION ALTITUDE 3997.30 FEET MSL
30 AUG. 79 1400 HRS MST
ASCENSION NO. 205

UPPER AIR DATA
2420060283
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
83500.0	26.6	-47.0		41.0	585.9	86.6	29.1	1.000009
84000.0	26.0	-46.9		40.1	586.0	85.4	30.1	1.000009
84500.0	25.4	-46.8		39.1	586.1	85.8	30.9	1.000009
85000.0	24.9	-46.7		38.2	586.3	87.0	31.6	1.000009
85500.0	24.3	-46.6		37.4	586.4	88.1	32.3	1.000008
86000.0	23.8	-46.5		36.5	586.5	89.4	31.6	1.000008
86500.0	23.2	-46.4		35.7	586.6	91.0	30.1	1.000008
87000.0	22.7	-46.4		34.9	586.7	92.7	28.6	1.000008
87500.0	22.2	-46.3		34.1	586.8	94.0	27.5	1.000008
88000.0	21.7	-46.2		33.3	586.9	93.9	26.9	1.000007
88500.0	21.2	-46.1		32.5	587.0	93.8	26.3	1.000007
89000.0	20.7	-45.2		31.7	588.1	93.7	25.7	1.000007
89500.0	20.3	-44.4		30.9	589.2	93.1	25.8	1.000007
90000.0	19.8	-43.8		30.1	590.0	92.5	26.0	1.000007
90500.0	19.4	-43.4		29.4	590.5	91.9	26.2	1.000007
91000.0	19.0	-43.1		28.7	590.9	91.4	26.3	1.000006
91500.0	18.5	-42.7		28.0	591.4	90.8	26.4	1.000006
92000.0	18.1	-42.4		27.4	591.8	90.3	26.5	1.000006
92500.0	17.7	-42.1		26.7	592.2	89.7	26.6	1.000006
93000.0	17.3	-41.7		26.1	592.7	89.0	26.6	1.000006
93500.0	17.0	-41.4		25.5	593.1	88.3	26.6	1.000006
94000.0	16.6	-41.0		24.9	593.5	87.6	26.7	1.000006
94500.0	16.2	-40.7		24.3	594.0	87.6	27.4	1.000005
95000.0	15.9	-40.4		23.7	594.4	88.3	28.7	1.000005
95500.0	15.5	-40.0		23.2	594.8	88.8	30.0	1.000005
96000.0	15.2	-39.7		22.6	595.3	89.4	31.3	1.000005
96500.0	14.8	-39.3		22.1	595.7	90.5	33.1	1.000005
97000.0	14.5	-39.0		21.6	596.1	91.7	34.9	1.000005
97500.0	14.2	-38.7		21.1	596.6	92.7	36.8	1.000005
98000.0	13.9	-38.5		20.6	597.0			1.000005
98500.0	13.6	-38.0		20.1	597.4			1.000004
99000.0	13.3	-37.8		19.7	597.6			1.000004
99500.0	13.0	-37.6		19.2	597.9			1.000004

ALL DATA DOUBTFUL, EXCEPT WIND DATA

STATION ALTITUDE 3997.30 FEET MSL
 30 AUG. 79 1400 HRS MST
 ASCENSION NO. 285

MRN SIGNIFICANT LEVEL DATA
 2420000285
 S M R

GEODEIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
3028.	9999.**	9999.**	-9999.**	-9999.**	99	-37.5		1.280+1
2986.	9999.**	9999.**	-9999.**	-9999.**	99	-38.0		1.360+1
2724.	93.	13.	1.	-13.	99	-43.9		2.000+1
2685.	94.	14.	1.	-13.	99	-46.1		2.120+1
2454.	93.	13.	1.	-13.	99	-47.4		3.000+1
2122.	94.	9.	1.	-9.	99	-55.1		5.000+1
2030.	78.	6.	-2.	-8.	99	-55.0		5.780+1
1909.	124.	3.	1.	-2.	99	-60.7		7.000+1
1690.	201.	9.	8.	3.	99	-67.0		1.000+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

ALL DATA DOUBTFUL, EXCEPT WIND DATA.

STATION ALTITUDE 3997.30 FEET MSL
 30 AUG: 79
 ASCENSION ILO. 285

MANDATORY LEVELS
 2420060285
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

PRESSURE GEOPOTENTIAL MILLIBARS	FEET	AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
					DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4928.	32.8	14.4	33.	157.1	2.1
800.0	6704.	26.4	12.3	42.	159.5	5.5
750.0	8560.	21.7	11.8	53.	181.6	6.2
700.0	10509.	16.0	9.7	66.	189.1	7.8
650.0	12564.	11.1	8.5	84.	212.7	5.4
600.0	14749.	8.0	1.5	63.	276.7	9.0
550.0	17085.	1.4	-3.5	70.	243.9	9.7
500.0	19587.	-2.5	-26.3	14.	236.2	11.0
450.0	22306.	-6.0	-32.6	10.	237.2	4.7
400.0	25293.	-12.7	-37.9	10.	259.5	12.6
350.0	28581.	-21.3	-43.8	11.	259.5	18.7
300.0	32250.	-28.6			245.3	39.3
250.0	36477.	-36.1			244.4	49.7
200.0	41425.	-48.8			251.4	55.7
175.0	44260.	-55.5			251.2	51.3
150.0	47433.	-62.4			240.9	60.8
125.0	51065.	-68.4			253.3	17.4
100.0	55457.	-67.0			201.1	18.9
80.0	59920.	-63.1			292.0	2.7
70.0	62631.	-60.7			124.5	4.9
60.0	65812.	-56.1			77.0	14.4
50.0	69632.	-55.1			93.5	16.7
40.0	74344.	-51.7			84.4	18.0
30.0	80525.	-47.4			93.0	25.7
25.0	84486.	-46.7			88.6	31.3
20.0	89356.	-43.9			92.8	25.9
15.0	95755.	-39.5			89.9	32.0

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

ALL DATA DOUBTFUL, EXCEPT WIND DATA

STATION ALTITUDE 3997.30 FEET MSL
 30 AUG. 79 1400 HRS MST
 ASCENSION NO. 285

MRN MANDATORY LEVELS
 2420060285
 S M R

GEODETTIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS	TEMP			AIR DEG C		
2919.	90.	16.	-0.		-16.	99	-39.5	1.500+1	
2724.	93.	13.	1.		-13.	99	-43.9	2.000+1	
2575.	87.	16.	-1.		-16.	99	-46.7	2.500+1	
2454.	93.	13.	1.		-13.	99	-47.4	3.000+1	
2266.	84.	9.	-1.		-9.	99	-51.7	4.000+1	
2122.	94.	9.	1.		-9.	99	-55.1	5.000+1	
2006.	77.	7.	-2.		-7.	99	-56.1	6.000+1	
1909.	125.	3.	1.		-2.	99	-60.7	7.000+1	
1826.	292.	1.	-1.		1.	99	-63.1	8.000+1	
1690.	201.	9.	8.		3.	99	-67.0	1.000+2	
1556.	253.	9.	3.		9.	99	-68.4	1.250+2	
1446.	241.	31.	15.		27.	99	-62.4	1.500+2	
1349.	251.	26.	9.		25.	99	-55.5	1.750+2	
1263.	251.	29.	9.		27.	99	-48.6	2.000+2	
1112.	244.	26.	11.		23.	99	-36.1	2.500+2	
983.	245.	20.	8.		18.	99	-28.6	3.000+2	
871.	259.	10.	2.		9.	23	-21.3	3.500+2	
771.	259.	6.	1.		6.	25	-12.7	4.000+2	
680.	237.	2.	1.		2.	27	-6.0	4.500+2	
597.	236.	6.	3.		5.	24	-2.5	5.000+2	
521.	244.	5.	2.		4.	05	1.4	5.500+2	
450.	277.	5.	-1.		5.	07	8.0	6.000+2	
383.	213.	3.	2.		2.	03	11.1	6.500+2	
320.	189.	4.	4.		1.	06	16.0	7.000+2	
261.	182.	3.	3.		0.	10	21.7	7.500+2	
204.	160.	3.	3.		-1.	14	26.4	8.000+2	
150.	157.	1.	1.		-0.	16	32.8	8.500+2	

ALL DATA DOUBTFUL, EXCEPT WIND DATA.

STATION ALTITUDE 4126.59 FEET MSL
30 AUG. 79
ASCENSION NO. 456

SIGNIFICANT LEVEL DATA
2420010456
HOLLOMAN

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LONG DEG

PRESSURE GEOMETRIC MILLIBARS	ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
873.0	4126.6	31.9	9.4	25.0
850.0	4910.1	28.9	8.6	28.0
756.4	8259.6	19.0	3.6	36.0
700.0	10423.0	12.7	2.0	48.0
679.2	11252.7	10.6	-0.0	46.0
625.2	13501.7	5.4	-3.1	54.0
605.2	14372.1	2.7	-1.3	75.0
588.4	15120.0	1.0	-2.7	76.0
518.8	18414.2	-5.1	-14.4	48.0
500.0	19353.6	-7.9	-13.9	62.0
487.1	20032.1	-7.9	-28.6	17.0
467.6	21072.9	-9.7	-32.1	14.0
460.6	21456.7	-9.6	-32.0	13.0
400.0	24926.4	-17.0	-38.8	13.0
317.4	30352.6	-31.0	-49.0	15.0
300.0	31806.4	-32.0		
290.4	32622.8	-32.0		
250.0	36053.8	-39.4		
200.0	40925.8	-51.6		
172.6	44055.1	-58.9		
150.0	46921.3	-64.4		
130.4	49714.3	-68.9		
116.0	52019.5	-69.6		
112.4	52637.3	-71.1		
100.0	54922.0	-70.7		
85.2	58098.3	-65.3		
70.0	62047.8	-65.3		
65.6	63363.6	-61.9		
50.0	68966.5	-57.9		
30.0	79742.1	-52.7		
20.0	88533.1	-46.2		
10.0	104016.0	-39.7		
9.2	105909.2	-39.0		

UPPER AIR DATA
2420010456
HOLLOMAN

STATION ALTITUDE 4126.59 FEET MSL
30 AUG. 79 1500 HRS MST
ASCENSION NO. 456

GEODETIC COORDINATES
32.88855 LAT DEG
106.09965 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) SPEED KNOTS	INDEX OF REFRACTION
4126.6	873.0	31.9	25.0	991.9	682.2	150.0	1.000269
4500.0	862.0	30.5	26.4	984.0	680.6	6.0	1.000267
5000.0	847.3	28.6	28.2	973.3	678.5		1.000263
5500.0	832.7	27.2	29.4	961.3	678.7		1.000259
6000.0	818.3	25.7	30.6	949.5	675.0		1.000254
6500.0	804.2	24.2	31.8	937.9	673.3		1.000250
7000.0	790.3	22.7	33.0	926.5	671.8		1.000246
7500.0	776.7	21.2	34.2	915.2	669.8		1.000242
8000.0	763.3	19.8	35.4	904.1	668.1		1.000238
8500.0	749.9	18.3	37.3	892.8	666.4		1.000234
9000.0	736.6	16.8	40.1	881.4	664.7		1.000231
9500.0	723.5	15.4	42.9	870.1	663.1	3.6	1.000228
10000.0	710.7	13.9	45.7	859.1	661.4	3.0	1.000225
10500.0	698.0	12.5	47.8	848.1	659.7	3.6	1.000221
11000.0	685.5	11.2	46.6	836.8	658.1	4.7	1.000216
11500.0	673.0	10.0	46.9	825.3	656.6	4.7	1.000211
12000.0	660.8	8.9	48.7	813.6	655.3	4.3	1.000208
12500.0	648.7	7.7	50.4	802.1	653.9	3.9	1.000204
13000.0	636.9	6.6	52.2	790.8	652.5	3.7	1.000201
13500.0	625.2	5.4	54.0	779.6	651.2	4.2	1.000197
14000.0	613.7	3.9	66.0	769.2	649.5	5.4	1.000198
14500.0	602.3	2.4	75.2	758.8	647.8	7.1	1.000196
15000.0	591.1	1.3	75.8	747.9	646.4	8.8	1.000192
15500.0	579.9	.3	72.8	736.6	645.2	10.8	1.000187
16000.0	568.9	-0.6	68.5	725.3	644.0	13.4	1.000182
16500.0	558.2	-1.6	64.3	714.3	642.8	14.4	1.000177
17000.0	547.6	-2.5	60.0	703.3	641.6	14.7	1.000172
17500.0	537.2	-3.4	55.8	692.5	640.4	13.6	1.000168
18000.0	527.1	-4.3	51.5	681.9	639.3	13.1	1.000164
18500.0	517.1	-5.4	49.3	671.6	638.0	13.4	1.000160
19000.0	507.1	-6.8	56.6	662.3	636.3	13.7	1.000159
19500.0	497.3	-7.9	52.8	652.3	634.9	13.9	1.000155
20000.0	487.7	-7.9	49.2	640.2	634.6	13.2	1.000146
20500.0	478.2	-8.7	45.7	629.8	633.6	12.4	1.000143
21000.0	468.9	-9.6	42.2	619.6	632.6	10.8	1.000140
21500.0	459.8	-8.7	38.7	608.5	633.0	9.7	1.000137
22000.0	450.7	-9.9	33.0	598.3	632.2	9.1	1.000135
22500.0	441.8	-11.1	13.0	587.2	630.8	8.4	1.000133
23000.0	433.1	-12.3	13.0	576.2	629.3	7.5	1.000131
23500.0	424.6	-13.4	13.0	569.4	627.9	7.2	1.000128

AX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4126.59 FEET MSL
30 AUG. 79 1500 HRS MST
ASCENSION NO. 456

UPPER AIR DATA
2420010450
HOLLOMAN

GEODETTIC COORDINATES
32.8865 LAT DEG
106.09965 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
24000.0	416.2	-14.6	-36.9	13.0	560.7	626.5	257.0	8.2	1.000126
24500.0	408.0	-15.8	-37.8	13.0	552.2	625.0	253.3	9.7	1.000124
25000.0	399.9	-17.0	-38.8	13.0	543.8	623.6	256.2	11.8	1.000122
25500.0	391.7	-18.3	-39.7	13.2	535.3	622.0	260.1	14.3	1.000120
26000.0	383.6	-19.5	-40.6	13.4	526.9	620.5	259.0	16.6	1.000118
26500.0	375.7	-20.8	-41.5	13.5	518.6	618.9	257.4	18.8	1.000116
27000.0	368.0	-22.0	-42.4	13.7	510.5	617.4	257.0	20.4	1.000115
27500.0	360.4	-23.3	-43.3	13.9	502.5	615.8	256.6	21.9	1.000113
28000.0	353.0	-24.6	-44.2	14.1	494.6	614.3	257.1	22.9	1.000111
28500.0	345.7	-25.8	-45.1	14.3	486.9	612.7	257.3	23.7	1.000109
29000.0	338.6	-27.1	-46.1	14.4	479.3	611.1	257.0	24.0	1.000107
29500.0	331.6	-28.3	-47.0	14.6	471.9	609.6	255.5	24.2	1.000106
30000.0	324.8	-29.6	-47.9	14.8	464.5	608.0	252.5	24.4	1.000104
30500.0	318.1	-30.9	-48.9	15.0	457.3	606.4	250.6	26.9	1.000102
31000.0	311.4	-31.3	-52.8	9.9**	448.5	605.8	249.8	30.4	1.000100
31500.0	304.8	-31.7	-60.0	4.2**	439.7	605.3	249.4	35.4	1.000098
32000.0	298.3	-32.0			430.9	605.0	249.1	40.2	1.000096
32500.0	291.9	-32.0			421.7	605.0	248.5	42.7	1.000094
33000.0	285.7	-32.8			414.1	604.0	248.2	44.6	1.000092
33500.0	279.5	-33.9			406.9	602.6	248.4	45.0	1.000091
34000.0	273.5	-35.0			400.0	601.2	248.3	45.6	1.000089
34500.0	267.5	-36.0			393.1	599.9	248.1	46.6	1.000088
35000.0	261.8	-37.1			386.4	598.5	247.8	47.8	1.000086
35500.0	256.1	-38.2			379.8	597.1	247.7	49.4	1.000085
36000.0	250.6	-39.3			373.3	595.8	247.6	50.9	1.000083
36500.0	245.0	-40.5			366.8	594.2	248.0	51.7	1.000082
37000.0	239.5	-41.6			360.5	592.6	248.5	52.5	1.000080
37500.0	234.1	-43.0			354.3	591.0	249.7	53.3	1.000079
38000.0	228.8	-44.2			348.2	589.4	250.5	53.9	1.000078
38500.0	223.7	-45.5			342.2	587.8	250.4	53.8	1.000076
39000.0	218.6	-46.7			336.4	586.2	250.2	53.9	1.000075
39500.0	213.7	-48.0			330.6	584.6	249.3	54.3	1.000074
40000.0	208.9	-49.2			325.0	583.0	249.4	54.4	1.000072
40500.0	204.2	-50.5			319.4	581.4	251.0	54.0	1.000071
41000.0	199.6	-51.7			314.0	579.7	252.2	53.2	1.000070
41500.0	194.9	-52.9			308.2	578.2	252.7	51.6	1.000069
42000.0	190.3	-54.1			302.6	576.6	252.9	50.7	1.000067
42500.0	185.8	-55.2			297.1	575.1	252.7	50.9	1.000066
43000.0	181.5	-56.4			291.7	573.5	252.5	51.2	1.000065
43500.0	177.2	-57.6			286.4	572.0	252.5	51.6	1.000064

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL
 30 AUG. 79 1500 HRS MST
 ASCENSION NO. 456

UPPER AIR DATA
 2420010450
 HOLLOWMAN

GEODETIC COORDINATES
 32.88805 LAT DEG
 100.09965 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
44000.0	173.1	-58.8		281.2	570.4	251.6	51.8	1.000063
44500.0	168.9	-59.8		275.7	569.1	249.4	51.7	1.000061
45000.0	164.8	-60.7		270.2	567.8	247.3	51.7	1.000060
45500.0	160.8	-61.7		264.9	566.5	245.5	51.6	1.000059
46000.0	156.9	-62.6		259.7	565.2	244.7	50.9	1.000058
46500.0	153.1	-63.6		254.6	564.0	243.7	48.4	1.000057
47000.0	149.4	-64.5		249.5	562.7	243.7	45.1	1.000056
47500.0	145.7	-65.3		244.3	561.6	240.7	40.7	1.000054
48000.0	142.1	-66.1		239.1	560.5	251.9	37.1	1.000053
48500.0	138.6	-66.9		234.1	559.4	252.1	34.2	1.000052
49000.0	135.2	-67.7		229.2	558.3	251.3	31.2	1.000051
49500.0	131.8	-68.6		224.4	557.2	249.4	28.1	1.000050
50000.0	128.5	-69.0		219.3	556.7	245.2	25.8	1.000049
50500.0	125.3	-69.1		214.0	556.4	237.5	24.7	1.000048
51000.0	122.2	-69.3		208.8	556.2	230.1	24.3	1.000046
51500.0	119.1	-69.4		203.7	556.0	224.9	25.1	1.000045
52000.0	116.1	-69.6		198.7	555.8	220.2	26.0	1.000044
52500.0	113.2	-70.8		194.8	554.2	217.0	24.8	1.000043
53000.0	110.3	-71.0		190.2	553.9	214.6	23.7	1.000042
53500.0	107.5	-70.9		185.3	554.0	211.1	22.2	1.000041
54000.0	104.8	-70.9		180.5	554.1	207.1	20.8	1.000040
54500.0	102.2	-70.8		175.9	554.2	202.7	20.0	1.000039
55000.0	99.6	-70.6		171.3	554.5	198.0	19.5	1.000038
55500.0	97.1	-69.7		166.3	555.7	194.3	20.0	1.000037
56000.0	94.7	-68.9		161.5	556.8	191.5	21.1	1.000036
56500.0	92.4	-68.0		156.8	558.0	194.2	21.8	1.000035
57000.0	90.1	-67.2		152.3	559.1	201.2	22.8	1.000034
57500.0	87.8	-66.3		147.9	560.3	209.0	20.7	1.000033
58000.0	85.6	-65.5		143.6	561.4	222.1	16.2	1.000032
58500.0	83.5	-65.3		140.0	561.7	236.1	11.9	1.000031
59000.0	81.5	-65.3		136.5	561.7	234.6	5.1	1.000030
59500.0	79.5	-65.3		133.2	561.7	99.1	1.4	1.000030
60000.0	77.5	-65.3		129.9	561.7	94.1	3.6	1.000029
60500.0	75.6	-65.3		126.7	561.7	100.0	5.9	1.000028
61000.0	73.7	-65.3		123.6	561.7	109.7	6.5	1.000028
61500.0	71.9	-65.3		120.6	561.7	120.0	6.8	1.000027
62000.0	70.2	-65.3		117.6	561.7	121.5	7.6	1.000026
62500.0	68.5	-64.1		114.1	563.2	118.4	8.5	1.000025
63000.0	66.8	-62.8		110.6	565.0	109.0	8.6	1.000025
63500.0	65.2	-61.8		107.4	566.4	95.4	7.9	1.000024

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

UPPER AIR DATA
2420010456
HOLLOMAN

STATION ALTITUDE 4126.59 FEET MSL
30 AUG. 79 1500 HRS MST
ASCENSION NO. 456

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KNOTS	
64000.0	63.6	-61.4			104.7	560.8	63.2	8.8	1.000023
64500.0	62.1	-61.1			102.0	567.3	53.1	11.3	1.000023
65000.0	60.6	-60.7			99.4	567.8	46.7	14.0	1.000022
65500.0	59.1	-60.4			96.6	568.3	58.2	15.9	1.000022
66000.0	57.7	-60.0			94.4	568.7	69.1	18.3	1.000021
66500.0	56.3	-59.7			91.9	569.2	77.8	17.9	1.000020
67000.0	55.0	-59.3			89.6	569.7	88.4	16.2	1.000020
67500.0	53.7	-58.9			87.3	570.2	99.1	14.4	1.000019
68000.0	52.4	-58.6			85.1	570.7	108.3	11.7	1.000019
68500.0	51.1	-58.2			82.9	571.1	122.4	9.5	1.000018
69000.0	49.9	-57.9			80.8	571.6	117.1	9.0	1.000018
69500.0	48.8	-57.6			78.8	571.9	109.0	8.8	1.000018
70000.0	47.6	-57.4			76.9	572.2	96.0	9.5	1.000017
70500.0	46.5	-57.2			75.0	572.5	83.1	11.3	1.000017
71000.0	45.4	-56.9			73.2	572.9	73.8	13.6	1.000016
71500.0	44.3	-56.7			71.4	573.2	69.2	15.8	1.000016
72000.0	43.3	-56.4			69.6	573.5	65.7	18.0	1.000015
72500.0	42.3	-56.2			67.9	573.8	65.1	18.9	1.000015
73000.0	41.3	-56.0			66.2	574.1	60.4	18.7	1.000015
73500.0	40.3	-55.7			64.6	574.5	68.4	18.6	1.000014
74000.0	39.4	-55.5			63.0	574.8	76.0	18.4	1.000014
74500.0	38.5	-55.2			61.5	575.1	83.3	18.5	1.000014
75000.0	37.6	-55.0			60.0	575.4	88.0	18.9	1.000013
75500.0	36.7	-54.7			58.5	575.7	89.5	19.3	1.000013
76000.0	35.8	-54.5			57.1	576.1	89.0	19.8	1.000013
76500.0	35.0	-54.3			55.7	576.4	69.0	19.2	1.000012
77000.0	34.2	-54.0			54.3	576.7	90.3	18.3	1.000012
77500.0	33.4	-53.8			53.0	577.0	91.4	17.3	1.000012
78000.0	32.6	-53.5			51.7	577.3	92.6	18.1	1.000012
78500.0	31.8	-53.3			50.4	577.6	94.0	18.9	1.000011
79000.0	31.1	-53.1			49.2	578.0	95.2	19.7	1.000011
79500.0	30.3	-52.8			48.0	578.3	96.1	20.5	1.000011
80000.0	29.6	-52.5			46.8	578.7	97.0	21.3	1.000010
80500.0	29.0	-52.1			45.7	579.2	98.9	21.8	1.000010
81000.0	28.3	-51.8			44.3	579.6	93.0	22.0	1.000010
81500.0	27.7	-51.4			43.5	580.1	94.7	22.2	1.000010
82000.0	27.0	-51.0			42.4	580.6	92.9	23.0	1.000009
82500.0	26.4	-50.7			41.4	581.1	91.0	24.0	1.000009
83000.0	25.8	-50.3			40.4	581.6	89.3	25.1	1.000009
83500.0	25.2	-49.9			39.4	582.1	92.2	25.6	1.000009

GEODETIC COORDINATES
32.88885 LAT DEG
106.09965 LON DEG

UPPER AIR DATA
2420010450
HOLLOMAN

STATION ALTITUDE 4126.59 FEET MSL
30 AUG. 79
1500 HRS MST
ASCENSION NO. 456

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES JEMPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TH)	SPEED KNOTS	INDEX OF REFRACTION
84000.0	24.7	-49.6		38.4	566.5	95.3	26.1	1.000009
84500.0	24.1	-49.2		37.5	565.0	98.2	26.7	1.000008
85000.0	23.5	-48.8		36.6	563.5	95.8	26.3	1.000008
85500.0	23.0	-48.4		35.7	564.0	95.4	25.9	1.000008
86000.0	22.5	-48.1		34.8	564.5	93.9	25.4	1.000008
86500.0	22.0	-47.7		33.9	564.9	89.5	24.9	1.000008
87000.0	21.5	-47.3		33.1	565.4	84.0	24.6	1.000007
87500.0	21.0	-47.0		32.3	565.9	79.9	24.4	1.000007
88000.0	20.5	-46.6		31.5	565.4	77.1	25.1	1.000007
88500.0	20.0	-46.2		30.7	565.9	74.6	26.1	1.000007
89000.0	19.6	-46.0		30.0	567.1	72.8	27.1	1.000007
89500.0	19.2	-45.8		29.3	567.4	73.7	27.9	1.000007
90000.0	18.7	-45.6		28.7	567.7	75.8	28.7	1.000006
90500.0	18.3	-45.4		28.0	568.0	77.9	29.5	1.000006
91000.0	17.9	-45.2		27.4	568.2	80.9	30.2	1.000006
91500.0	17.5	-45.0		26.7	568.5	84.0	31.0	1.000006
92000.0	17.1	-44.7		26.1	568.8	88.5	32.0	1.000006
92500.0	16.7	-44.5		25.5	569.0	91.5	32.9	1.000006
93000.0	16.4	-44.3		24.9	589.3	93.3	33.5	1.000006
93500.0	16.0	-44.1		24.4	589.8	95.0	34.2	1.000005
94000.0	15.7	-43.9		23.8	589.9	96.5	34.9	1.000005
94500.0	15.3	-43.7		23.2	590.1	98.7	35.1	1.000005
95000.0	15.0	-43.5		22.7	590.4	98.9	35.4	1.000005
95500.0	14.6	-43.3		22.2	590.7	97.2	35.7	1.000005
96000.0	14.3	-43.1		21.7	590.9	95.0	34.6	1.000005
96500.0	14.0	-42.9		21.2	591.2	93.8	33.5	1.000005
97000.0	13.7	-42.6		20.7	591.5	91.9	32.4	1.000005
97500.0	13.4	-42.4		20.2	591.7	89.8	31.5	1.000005
98000.0	13.1	-42.2		19.7	592.0	87.3	30.7	1.000004
98500.0	12.8	-42.0		19.3	592.3	85.2	29.9	1.000004
99000.0	12.5	-41.8		18.8	592.5	83.0	29.2	1.000004
99500.0	12.2	-41.6		18.4	592.8	81.8	28.4	1.000004
100000.0	12.0	-41.4		18.0	593.1	80.2	27.7	1.000004
100500.0	11.7	-41.2		17.6	593.4	78.0	27.1	1.000004
101000.0	11.4	-41.0		17.2	593.8	75.0	27.0	1.000004
101500.0	11.2	-40.8		16.8	593.9	71.9	26.9	1.000004
102000.0	10.9	-40.5		16.4	594.2	69.8	27.1	1.000004
102500.0	10.7	-40.3		16.0	594.4	71.2	28.4	1.000004
103000.0	10.5	-40.1		15.6	594.7	72.4	29.8	1.000003
103500.0	10.2	-39.9		15.3	595.0			1.000003

STATION ALTITUDE 4126.59 FEET MSL
30 AUG. 79 1500 HRS MST
ASCENSION NO. 456

UPPER AIR DATA
2420010456
HOLLOWMAN

GEODETTIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
104000.0	10.0	-39.7		14.9	595.2			1.000003
104500.0	9.8	-39.5		14.6	595.5			1.000003
105000.0	9.6	-39.3		14.3	595.7			1.000003
105500.0	9.4	-39.2		13.9	595.9			1.000003

MRN SIGNIFICANT LEVEL DATA

STATION ALTITUDE 4125.59 FEET NSL
30 AUG. 79
ASCENSION NO. 456

2420010450
HOLLOMAN

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

GEOPOTENTIAL ALTITUDE METERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	DEW PT DEF DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
3210.	9999.**	9999.**	-9999.**	-9999.**	99	-39.0		9.200+0
3153.	9999.**	9999.**	-9999.**	-9999.**	99	-39.7		1.000+1
2686.	75.	13.	-4.	-13.	99	-46.2		2.000+1
2420.	97.	11.	1.	-11.	99	-52.7		3.000+1
2094.	116.	5.	2.	-4.	99	-57.9		5.000+1
1925.	92.	4.	0.	-4.	99	-61.9		6.560+1
1685.	121.	4.	2.	-3.	99	-65.3		7.000+1
1705.	226.	8.	6.	0.	99	-65.3		8.520+1
1069.	199.	10.	10.	3.	99	-70.7		1.000+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4126.59 FEET MSL
30 AUG. 79 1500 HRS MST
ASCENSION NO. 456

MANDATORY LEVELS
2420010456
HOLLOMAN

GEODETTIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4907.	28.9	8.6	28.	9999.0	9999.0XX
800.0	6660.	23.8	6.2	52.	9999.0	9999.0XX
750.0	8492.	18.3	3.5	37.	9999.0	9999.0XX
700.0	10413.	12.7	2.0	48.	249.3	5.4
650.0	12438.	7.8	-1.9	50.	259.0	5.9
600.0	14565.	2.2	-1.7	75.	251.3	7.4
550.0	16874.	-2.3	-8.8	61.	245.8	14.8
500.0	19337.	-7.9	-13.9	62.	248.6	13.8
450.0	22015.	-10.0	-33.1	13.	302.4	9.1
400.0	24955.	-17.0	-38.8	13.	250.0	11.7
350.0	28191.	-25.1	-44.6	14.	257.2	25.3
300.0	31803.	-32.0			249.2	39.0
250.0	35975.	-39.4			247.7	50.9
200.0	40857.	-51.6			252.1	53.4
175.0	43657.	-50.2			252.6	51.8
150.0	46795.	-64.4			248.3	40.0
125.0	50403.	-69.2			237.1	24.6
100.0	54753.	-70.7			199.0	19.6
80.0	59168.	-65.3			210.0	6
70.0	61835.	-65.3			121.4	7.6
60.0	64960.	-60.6			49.5	14.6
50.0	68700.	-57.9			118.1	9.0
40.0	73348.	-55.6			70.0	10.5
30.0	79402.	-52.7			90.5	20.9
25.0	83290.	-49.8			93.0	23.7
20.0	88110.	-46.2			74.8	20.1
15.0	94430.	-43.5			90.9	35.3
10.0	103452.	-39.7				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

AX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

MRN MANDATORY LEVELS

STATION ALTITUDE 4126.59 FEET NSL
30 AUG 79 1500 HRS MST
ASCENSION NO. 456

GEODETIC COORDINATES
32.88855 LAT DEG
106.09955 LON DEG

2420010450
HOLLOMAN

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA		TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS	E-W MPS	DEW PT DEG C	AIR DEG C	
3153.	9999.**	9999.**	-9999.**	-9999.**	99	-39.7	1.000+1
2878.	97.	15.	2.	-18.	99	-43.5	1.500+1
2686.	75.	13.	-4.	-13.	99	-46.2	2.000+1
2539.	93.	13.	1.	-13.	99	-49.8	2.500+1
2420.	97.	11.	1.	-11.	99	-52.7	3.000+1
2436.	70.	10.	-3.	-9.	99	-55.6	4.000+1
2094.	118.	5.	2.	-4.	99	-57.9	5.000+1
1980.	50.	8.	-5.	-3.	99	-60.6	6.000+1
1885.	121.	4.	2.	-3.	99	-65.3	7.000+1
1803.	217.	0.	0.	0.	99	-65.3	8.000+1
1669.	199.	10.	10.	3.	99	-70.7	1.000+2
1536.	237.	13.	7.	11.	99	-69.2	1.250+2
1420.	248.	24.	9.	22.	99	-64.4	1.500+2
1331.	253.	27.	8.	23.	99	-58.2	1.750+2
1245.	252.	27.	6.	20.	99	-51.6	2.000+2
1097.	246.	26.	10.	24.	99	-39.4	2.500+2
969.	249.	20.	7.	19.	99	-32.0	3.000+2
859.	257.	12.	3.	12.	20	-25.1	3.500+2
761.	250.	6.	1.	0.	22	-17.0	4.000+2
671.	302.	5.	-3.	4.	23	-10.0	4.500+2
589.	249.	7.	3.	7.	00	-7.9	5.000+2
514.	246.	8.	3.	7.	00	-2.3	5.500+2
445.	251.	4.	1.	4.	04	2.2	6.000+2
379.	260.	2.	0.	2.	10	7.8	6.500+2
317.	249.	2.	1.	2.	11	12.7	7.000+2
259.	9999.**	9999.**	-9999.**	-9999.**	15	18.3	7.500+2
203.	9999.**	9999.**	-9999.**	-9999.**	18	23.8	8.000+2
150.	9999.**	9999.**	-9999.**	-9999.**	20	28.9	8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.